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A Novel Protocol for Gastric Lavage in Patients with Aluminum Phosphide Poisoning: A Double-Blind Study

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Aluminum phosphide poisoning (ALPP) still has no efficient and approved antidote. Supportive care and hemodynamic monitoring are the only choices of treatment. We proposed a new lavage formulation in addition to evaluation of its efficacy and defining the impact of clinical characteristics of patients on their prognosis. During eight months period of time, 120 patients were enrolled to the study and randomly received two different gastric lavage protocols. Our new lavage protocol had positive impact on patients' survival and the P-value in comparison with the classic gastric lavage method was close to significant level (P 0.054). On hospital arrival indication for intubation-ventilation as well as sense of thirst, sore throat and absence of nausea indicate worse outcome. Using our novel approach, indication for intubation-ventilation as well as sense of thirst, sore throat and absence of nausea can be considered as applicable prognostic factors in survival of ALPP patients. Further studies are required to set this approach as preferred treatment.

Keyword: Aluminum Phosphide, Poisoning, Gastric lavage, Novel Treatment